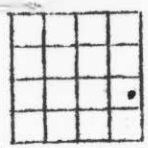
driller's

County Clinton



sec. 18 T. 55 R. 31

Owner Arrow Oil & Gas Co.
+ Culler, E.A.

Elev. 988 MGS#

Farm Winn, G.E. No. 1 TD 660 Shows Oil Spls.

Status D&A Date Completed 6-16-31 Fm@TD P

Remarks:
Hammond field

AA004

Nature of Trap

It is believed that structure and stratigraphy were about equally important in determining suitable environments for hydrocarbon accumulation. Highly porous and permeable rocks allowed fluid to move updip until they reached a suitable cap rock that effectively trapped them. A combination of faulting and differential compaction and/or draping over pre-existing highs were responsible for the trapped oil and gas (fig. 7).

Thickness, Lithology, and Continuity of Reservoir

The stratigraphy of the field is diverse, both sands and shales have been gas producing. The producing sands, 5 ft to 30 ft appear to be distributary-channel deposits. The sand is coarse, with varying permeability and porosity. On the flanks of the producing sands, the unit becomes silty to shaly and calcareous. The sand occupies topographic lows; as do the producing shales in the Kansas City Group.

The producing shales are gray to black and 1 ft to over 30 ft thick. Some shales contain varying amounts of thin coal that are believed to represent periods of transgression, effectively terminating sand deposition.

The channel system on which the Hammond field is situated strikes northwest-southeast and is part of a much larger system. The producing wells are completed in topographic lows which cross the channel system and which may be controlled by regional faulting.

Estimated Ultimate Yield

Little is known about the production of the Hammond field, total production from 1933 to 1956 was approximately 279,943 Mcf.

Market for Gas

Gas was produced from eight wells in the field and distributed by the Central West Utility Company to the cities of Plattsburg, Smithville, and Liberty, from 1936 through 1955. In 1956, the City of Plattsburg purchased the pipeline. Currently, adjacent landowners are using the gas to heat farmhouses and barns.

Hammond Field Data

Well Name	Contractor	Date Completed	Initial Production	Oil/Gas Shows
Fred Gull #1	Messler Gas Co.	02/23/31		
G.E. Winn #1	Arrow Oil & Gas	06/06/31	D&A	Gas
Willis #2	R.M. Hammond	10/10/32	D&A	Gas